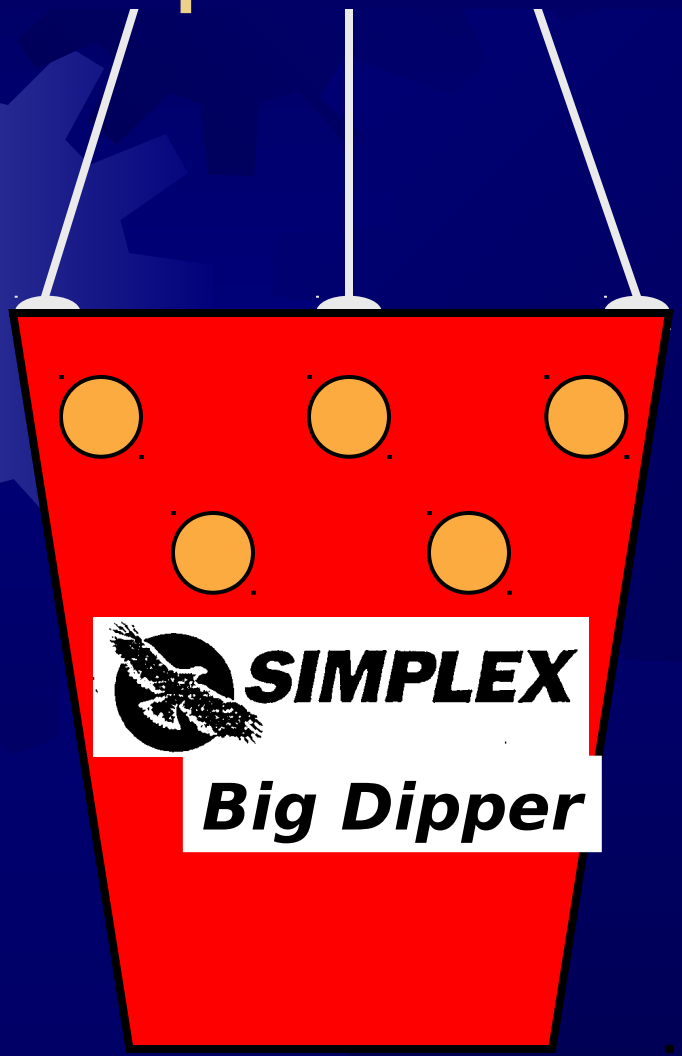
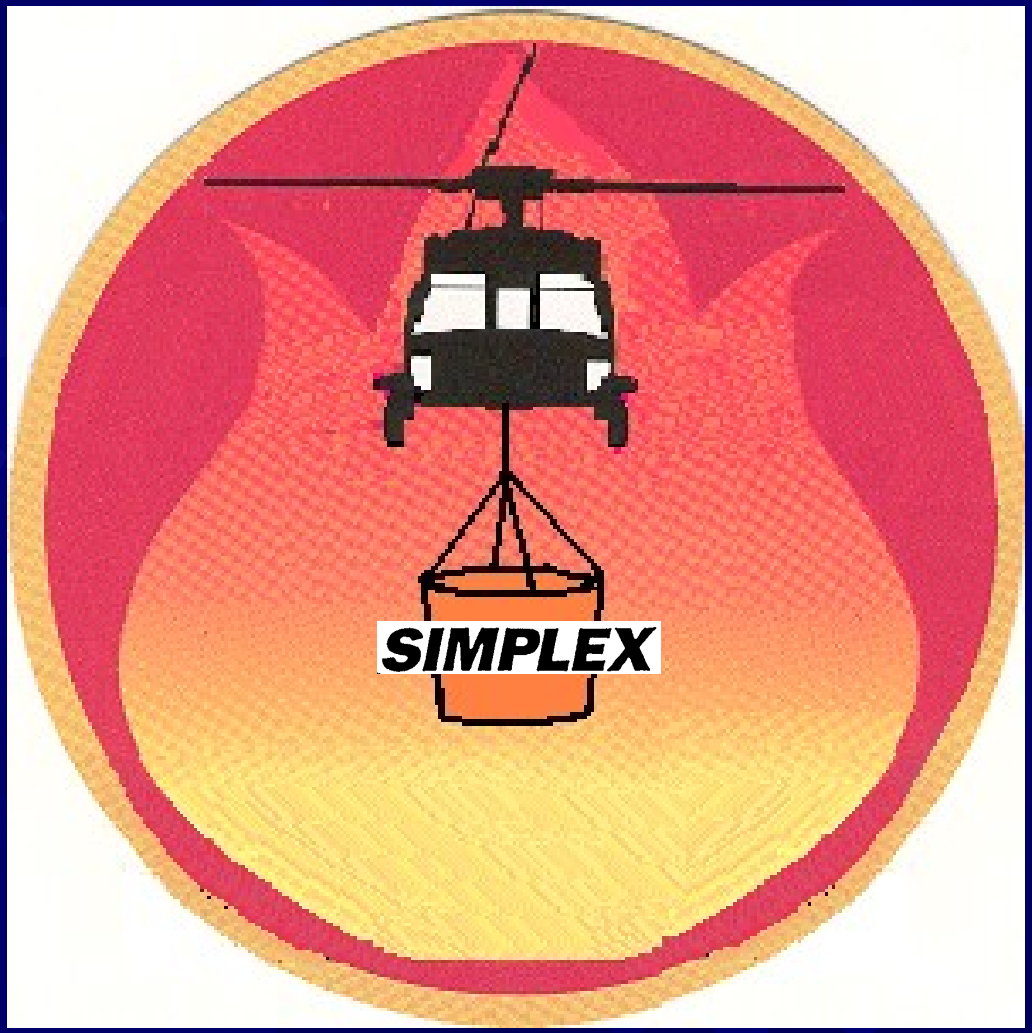
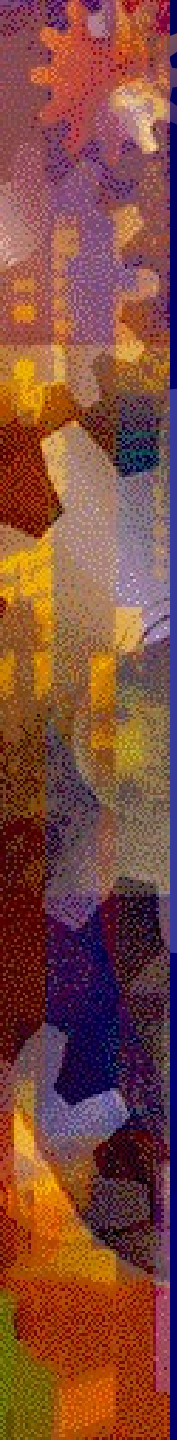
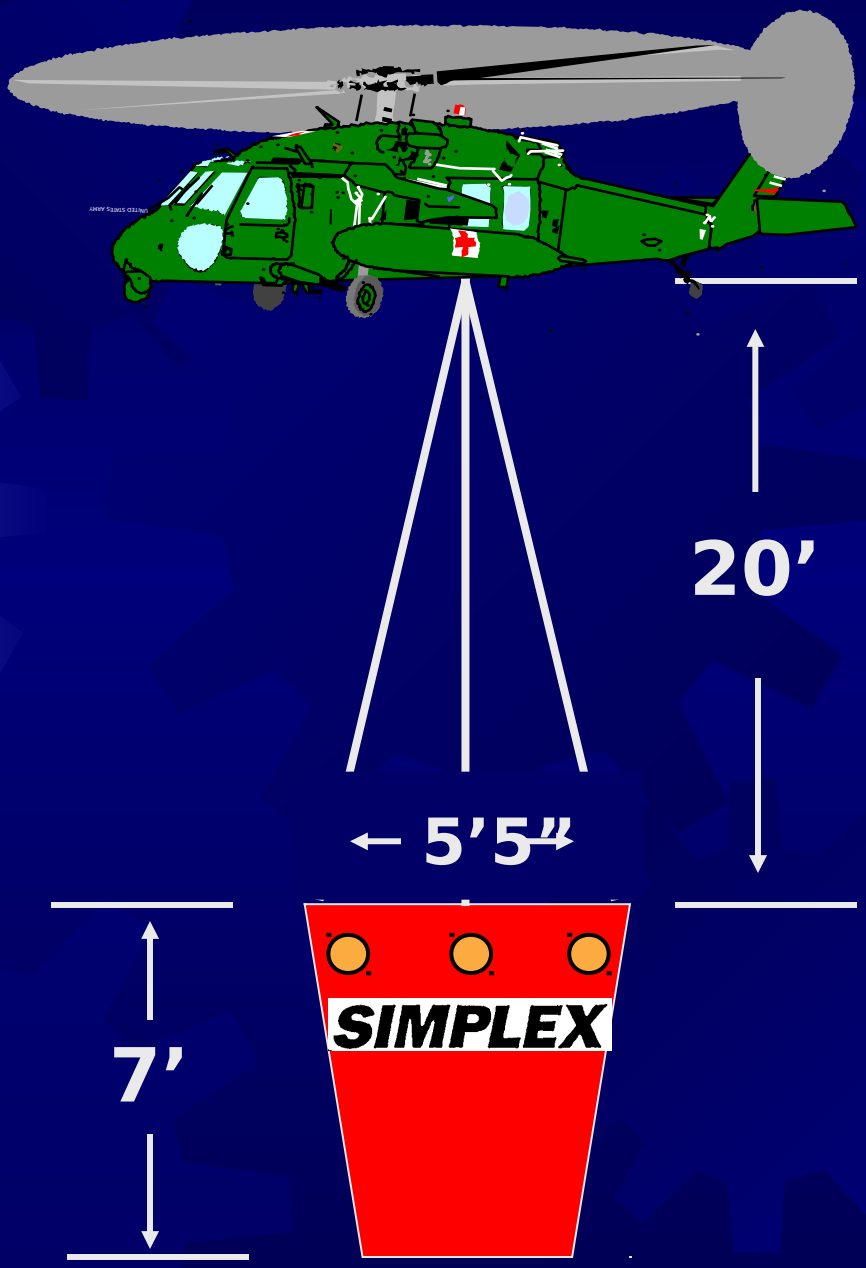
Fire Season Preparation



1000 gal Water Bucket
Model 19100





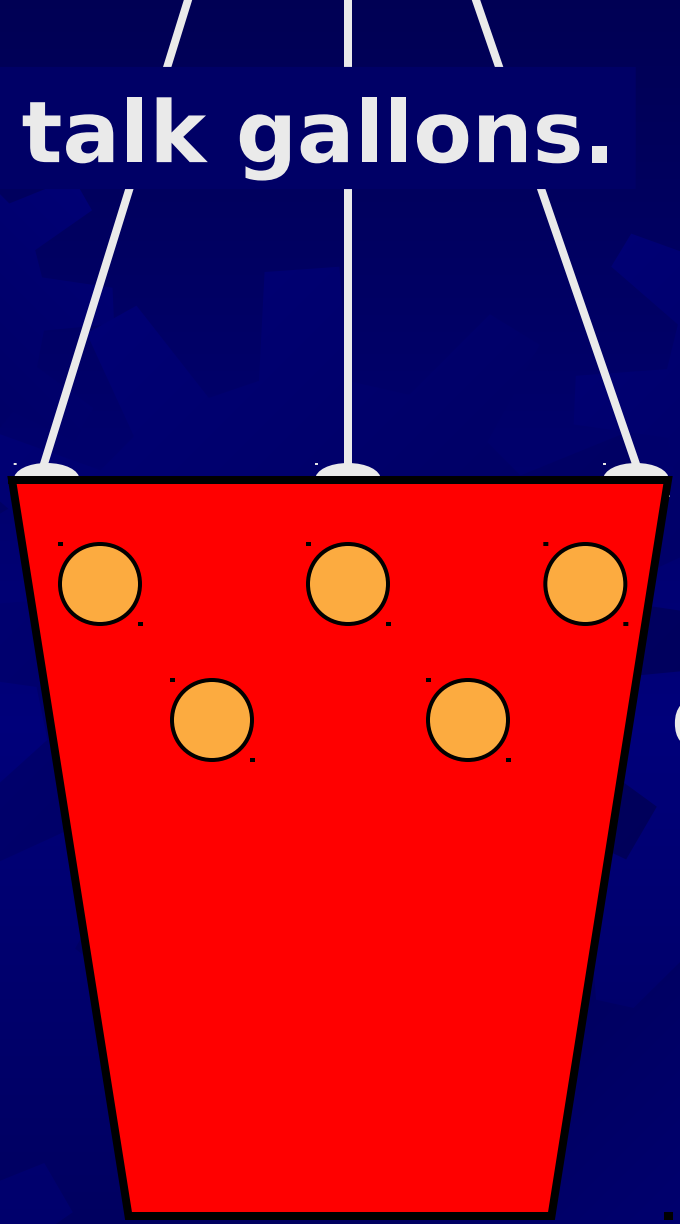


Check these figure against your radar altimeter.

An additional long line of any length can be added.

Additional lengths of line can be added.

Let’s talk gallons.

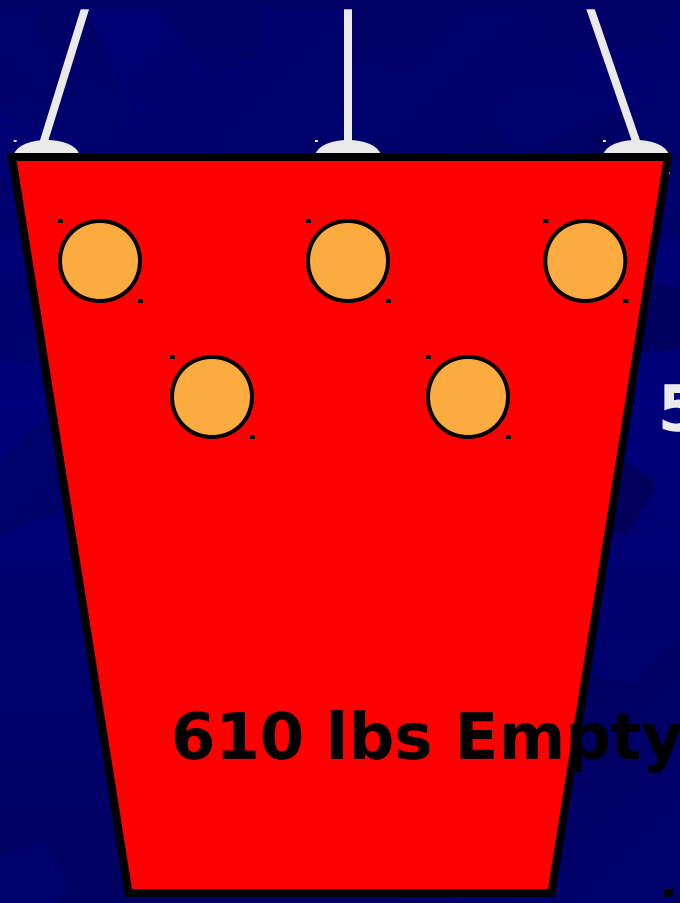


1000 gallons

800 gallons

600 gallons

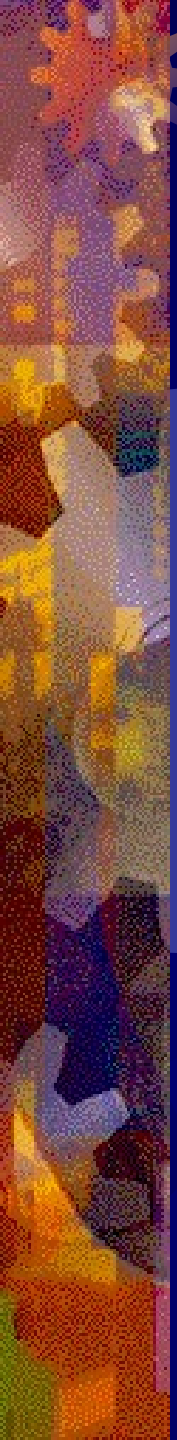
That was gallons, now we're talking po
The bucket and the water weigh:



8,910 lbs.

7,250 lbs.

5,590 lbs.



Quiz question:

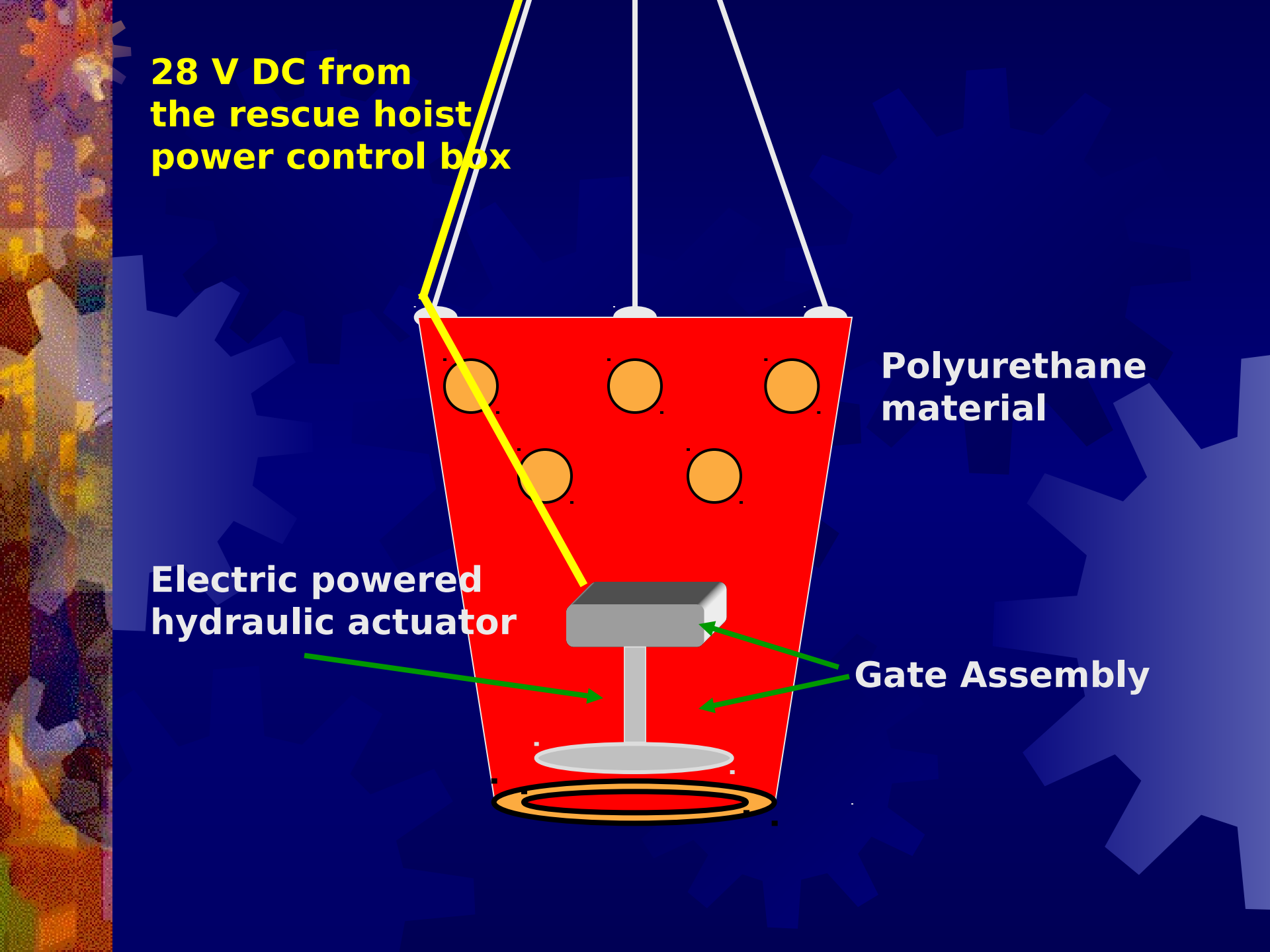
How often are we going to be able to
with a full bucket of water?

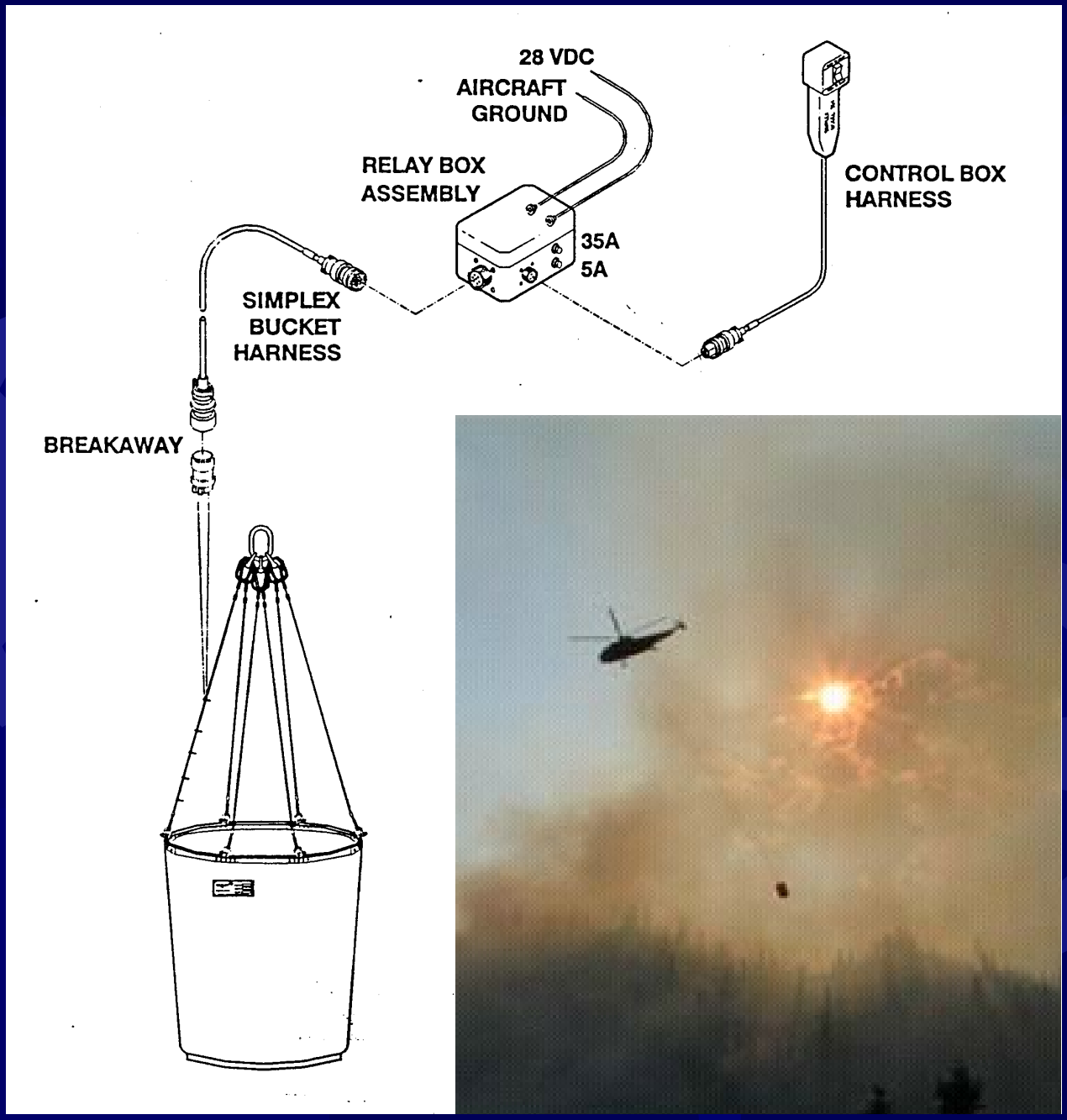
Basic acft weight	11,630
Crew	600
½ fuel	1,206
Bucket	610
1,000 gal of H2O	8,300
Total	22,346

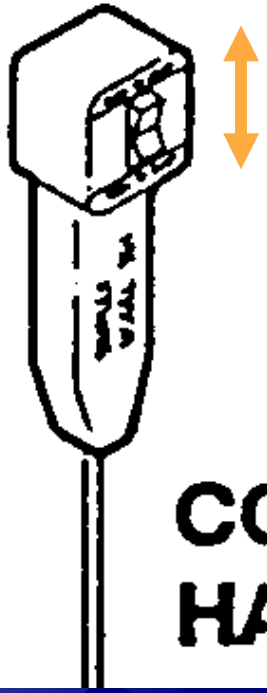
One answer:

Not very often. At sea level on a cool d

At 3,000 feet and +25 C, Max Gross Wt
is 21,900 assuming you have two 1.0 en


28 V DC from
the rescue hoist
power control box
Polyurethane
material
Electric powered
hydraulic actuator
Gate Assembly


28 VDC
AIRCRAFT
GROUND
RELAY BOX
ASSEMBLY
35A
5A
CONTROL BOX
HARNESS
SIMPLEX
BUCKET
HARNESS
BREAKAWAY



UP Open

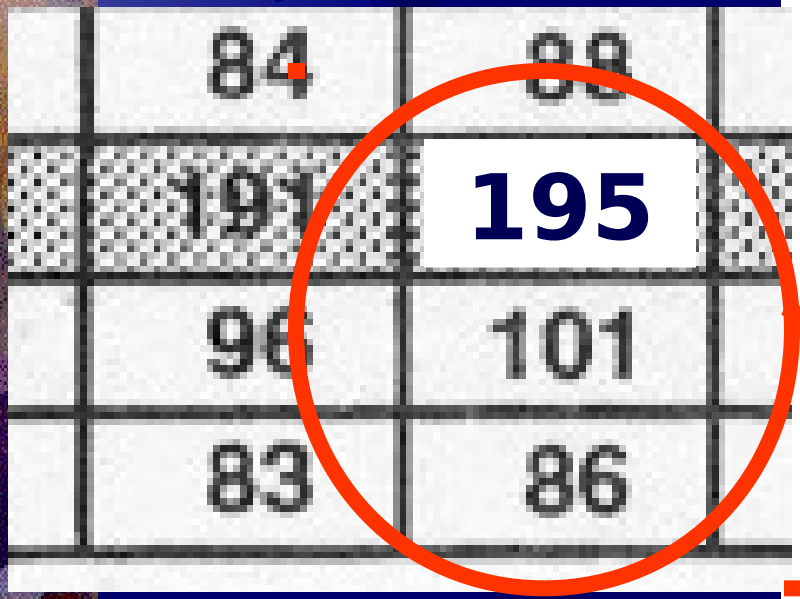
DOWN Closed

CONTROL BOX HARNESS

Weight and Balance
Fm 365-4

PPC
DA Fm 5701

PA 6000’
FAT +25 C
MGW OGE 19,500

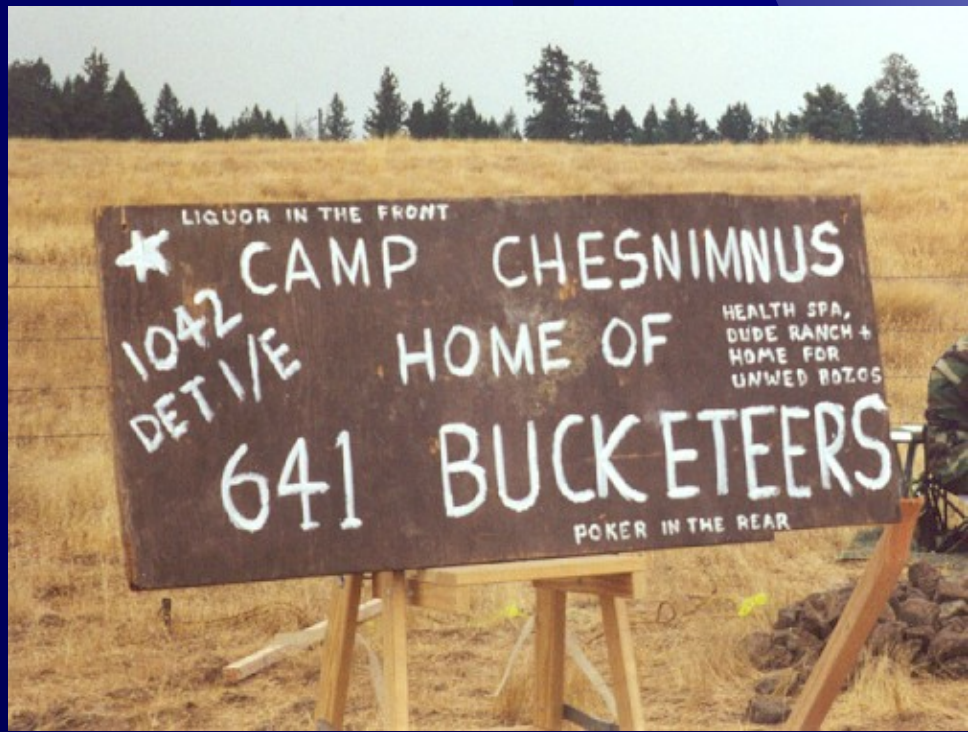


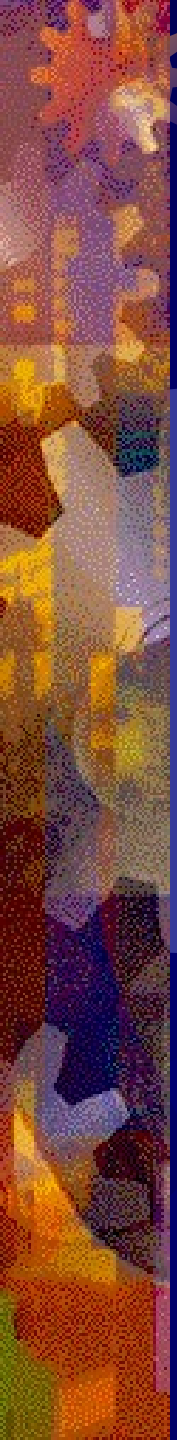
MAXIMUM OGE HOVER WEIGHT AND TORQUE REQUIRED
ANTI-ICE OFF T700-GE-701C ENGINE (CONTINUED)

HP ~FT	ATF *	FREE AIR TEMPERATURE ~°C 10		15		20		25	
		1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9
0	GW ~ 100 LB	220	220	220	220	220	220	220	220
	Q ~ OGE ~ %	105	105	105	105	106	106	107	107
	Q ~ IGE ~ %	90	90	91	91	92	92	92	92
1000	GW ~ 100 LB	220	220	220	220	220	220	220	220
	Q ~ OGE ~ %	106	106	107	107	108	108	109	109
	Q ~ IGE ~ %	92	92	92	92	93	93	94	94
2000	GW ~ 100 LB	220	220	220	220	220	220	220	217
	Q ~ OGE ~ %	109	109	109	109	110	110	111	109
	Q ~ IGE ~ %	93	93	94	94	95	95	95	94
3000	GW ~ 100 LB	220	220	220	218	220	214	219	209
	Q ~ OGE ~ %	111	111	111	111	113	108	114	105
	Q ~ IGE ~ %	95	95	96	95	96	93	97	90
3500	GW ~ 100 LB	220	218	220	214	219	210	215	205
	Q ~ OGE ~ %	112	111	113	109	113	106	111	103
	Q ~ IGE ~ %	96	95	97	93	97	91	95	88
4000	GW ~ 100 LB	220	214	217	210	214	206	211	201
	Q ~ OGE ~ %	114	109	113	106	111	104	109	101
	Q ~ IGE ~ %	97	93	96	91	95	89	93	87
4500	GW ~ 100 LB	216	210	213	206	210	202	207	197
	Q ~ OGE ~ %	112	107	111	104	109	102	107	99
	Q ~ IGE ~ %	96	92	94	90	93	88	91	85
5000	GW ~ 100 LB	212	206	209	202	206	198	203	194
	Q ~ OGE ~ %	110	104	109	102	107	100	105	97
	Q ~ IGE ~ %	94	90	92	88	91	86	90	83
5500	GW ~ 100 LB	208	202	205	198	202	195	199	190
	Q ~ OGE ~ %	108	103	106	100	105	98	102	95
	Q ~ IGE ~ %	92	88	91	86	89	84	88	82
6000	GW ~ 100 LB	204	198	201	195	199	191	195	186
	Q ~ OGE ~ %	106	101	104	98	103	96	101	93
	Q ~ IGE ~ %	90	87	89	85	88	83	86	80

* GW ~ 100 LB = GW DIVIDED BY 100 LB

Load Calc - Simplex



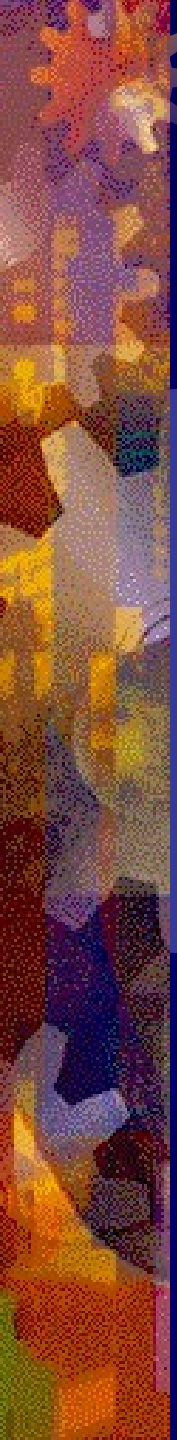


WARNINGS, Cautions, and Notes

WARNING – Due to the weight of the bucket without water, be aware of any personnel o in the vicinity prior to jettisoning the bucke

Max airspeed with bucket – 90 knots.
Aircraft limited to Day/Night VFR.

When conducting bucket operations, be sur have a copy of the technical manual on boa aircraft.



Pre-Flight Inspection (see the TM)

- Check bucket electrical connections – C
  and secure.
- Check relay box – Circuit breakers In
- Check Gate position – Closed

Cockpit Equipment Checks

- Mission equipment – IAW Operator's Ch
- Control Box switch – Press UP, then DO
  should open then close

Before Take-Off Checks

- Gate closed

Photographer: John McColga